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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/867,023	05/30/2001	Jin Hee Jung	049128-5009	5352
9629 75	590 02/24/2003			
MORGAN LEWIS & BOCKIUS LLP			EXAMINER	
HH PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004		NGUYEN, HA T		
			ART UNIT	PAPER NUMBER
			2812	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
•	09/867,023	JUNG, JIN HEE
Office Action Summary	Examiner	Art Unit
	Ha T. Nguyen	2812
The MAILING DATE of this communicat Period for Reply	tion appears on the cover sheet w	rith the correspondence address
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communic. - If the period for reply specified above is less than thirty (30) da - If NO period for reply is specified above, the maximum statutor - Failure to reply within the set or extended period for reply will, - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). Status	TION. 7 CFR 1.136(a). In no event, however, may a lation. ays, a reply within the statutory minimum of thir propried will apply and will expire SIX (6) MOI by statute, cause the application to become A	reply be timely filed ty (30) days will be considered timely THS from the mailing date of this communication
1) Responsive to communication(s) filed	on	
_	☐ This action is non-final.	
3) Since this application is in condition for closed in accordance with the practice Disposition of Claims	r allowance except for formal ma	tters, prosecution as to the merits is D. 11, 453 O.G. 213.
4) Claim(s) 1-13 is/are pending in the app	lication.	
4a) Of the above claim(s) is/are w		
5) Claim(s) is/are allowed.		
6) Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction	and/or election requirement.	
Application Papers	4	
9) The specification is objected to by the Ex	kaminer.	
10) The drawing(s) filed on is/are: a)	☐ accepted or b)☐ objected to by t	he Examiner.
Applicant may not request that any objection	on to the drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).
11) The proposed drawing correction filed on	ı is: a)∏ approved b)∏ d	isapproved by the Examiner.
If approved, corrected drawings are require	ed in reply to this Office action.	
12) The oath or declaration is objected to by	the Examiner.	
riority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for	foreign priority under 35 U.S.C. §	§ 119(a)-(d) or (f).
a) All b) Some * c) None of:		
2. Certified copies of the priority doc	uments have been received in A	polication No
3. Copies of the certified copies of th		
	nal Bureau (PCT Rule 17.2(a)).	· ·
14) Acknowledgment is made of a claim for do	omestic priority under 35 U.S.C.	§ 119(e) (to a provisional application).
a) The translation of the foreign langua 15) Acknowledgment is made of a claim for de		
ttachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-9 Information Disclosure Statement(s) (PTO-1449) Paper I	(48) 5) Notice of I	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)
Patent and Trademark Office D-326 (Rev. 04-01)	ffice Action Summary	Part of Paper No. 3

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DETAILED ACTION

Specification

1. The incorporation of essential material in the specification by reference to a foreign application or patent, or to a publication is improper. Applicant is required to amend the disclosure to include the material incorporated by reference. The amendment must be accompanied by an affidavit or declaration executed by the applicant, or a practitioner representing the applicant, stating that the amendatory material consists of the same material incorporated by reference in the referencing application. See *In re Hawkins*, 486 F.2d 569, 179 USPQ 157 (CCPA 1973); *In re Hawkins*, 486 F.2d 579, 179 USPQ 163 (CCPA 1973); and *In re Hawkins*, 486 F.2d 577, 179 USPQ 167 (CCPA 1973).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-6, 8, and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhong et al. (U.S. Patent 6365916, hereinafter "Zhong") in view of Narita et al. (U.S. Patent 5555114, hereinafter "Narita").

toward the back of the device shown in Fig. 5 (flipping the Fig. 5, upside down) Zhong discloses a reflective liquid crystal display device comprising: a first substrate 51; a retardation film disposed on the first substrate; a polarizing plate 53 disposed on the retardation film (see col. 14, lines 39-44); a transparent electrode 49 formed on the lower side of the first substrate; a second substrate 19; thin film elements formed on the second substrate (see Fig. 4); color filters 101 formed on the thin film elements; a pixel electrode 3 formed on each of the color filters, wherein the pixel electrode corresponds to a respective one of the color filter; and a liquid crystal layer 45

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is located between the first substrate and the second substrate. But Zhong does not disclose expressly wherein the color filters include a cholestric liquid crystal. However, the missing limitation is well known in the art because Narita discloses this feature (See abstract). A person of ordinary skill is motivated to modify Zhong with Narita to obtain better, sharper image due to the selective characteristic of the CLC.

[Claim 2] Zhong also discloses an absorbing layer 41 disposed on the second substrate (see Fig. 3), depending on the arrangement of the device, the absorbing layer is disposed on the lower or upper side of the substrate;

[Claims 3 and 10-12] wherein thin film elements include a TFT as switching device having an electrode 31, and the pixel electrode 3 is connected to the electrode of the switching device through a contact hole 35 (see Fig. 4);

[Claims 4 and 5] Narita also discloses the phase difference value of the retardation film is $\lambda/4$; and wherein the phase difference value in the liquid crystal is $\lambda/2$ (see col. 8, lines 51); and

[Claim 6] further comprising a first alignment layer 47 disposed between the first substrate 51 and liquid crystal layer 45; and a second alignment layer 43 disposed between the second substrate19 and liquid crystal layer 45.

Therefore, it would have been obvious to combine Zhong with Narita to obtain the invention as specified in claims 1-6, 8, and 10-12.

4. Claims 7, 9, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhong in view of Narita, as applied to claims 1-6, 8, and 10-12 above, and further in view of Kadota et al. (U.S. Patent 5818550, hereinafter "Kadota").

13, as shown above. It also discloses the pixel electrode 3 is connected to the electrode of the switching device through a contact hole 35 (see Zhong, Fig. 4).

But it does not disclose expressly that an insulating film is between the color filters and the pixel electrode .

However, the missing limitation is well known in the art because Kadota discloses this feature (See fig. 1, # 10).

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A person of ordinary skill is motivated to modify Zhong and Narita with Kadota to obtain device withbetter reliability and integrity resulting from better isolation of the different components.

Therefore, it would have been obvious to combine Zhong and Narita with Kadota to obtain the invention as specified in claims 7, 9, and 13.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ha Nguyen whose telephone number is (703)308-2706. The examiner can normally be reached on Monday-Friday from 8:30AM to 6:00PM, except the first Friday of each bi-week.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling, can be reached on (703) 308-3325. The fax phone number for this Group is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Ha Nguyen

Primary Examiner

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